

KOLCHIN, V.Ye.; VUL'FSON, N.S.

Dieckmann condensation. Part 10: Synthesis of 2-
and 4-carbomethoxy-3-ketohydrothiophenes and
4-carbomethoxy-3-ketotetrahydrofuran. Zhur.ob.khim.
32 no.11:3731-3734 N '62. (MIRA 15:11)
(Thiophene) (Furan)
(Dieckmann condensation)

KOCHETKOV, N. K.; VUL'FSON, N. S.; CHIZHOV, O. S.; ZOLOTAREV, B. M.

Mass spectrometry of carbohydrates. Methyl ethers of monosaccharides. Dokl. AN SSSR 147 no.6:1367-1372 D '62.
(MIRA 16:1)

1. Institut khimii prirodnnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Korshak).

(Monosaccharides—Spectra)

KOCHETKOV, N. K.; VULFSON, N. S.; CHIZHOV, O. S.; SOLOTAREV, B. M.

Co-author of a paper entitled, "The Use of Mass Spectrometry in Carbohydrate Research".

19th International Congress of Pure and Applied Chemistry *163 London 16-17 Jul 63*

Institute for Chemistry of Natural Products, USSR Academy of Sciences.

VUL'FSON, N.S.; ZARETSKIY, V.I.; CHETVERIKOVA, L.S.

Thin layer chromatography of natural coumarins and furanocoumarins.
Izv.AN SSSR.Ser.khim. no.8:1503-1505 Ag '63. (MIRA 16:9)

1. Institut khimii prirodnnykh soyedineniy AN SSSR.
(Coumarin) (Chromatographic analysis)

VUL'FSON, N.S.; STEPANOV, V.M.; PUCHKOV, V.A.; ZYAKUN, A.M.

Mass spectra of phenylthiohydantoin of amino acids. Izv. AN
SSSR. Ser. khim. no. 8: 1524-1525 Ag '63. (MIRA 16:9)

1. Institut khimii prirodnnykh soyedineniy AN SSSR.
(Amino acids) (Hydantoin) (Mass spectrometry)

VUL'FSON, N.S.; ZARETSKIY, V.I.

Dieckmann reaction. Reakts. org. soed. 12:7-257 '63.
(MIRA 16:7)

(Dieckmann condensation)

VUL'FSON, N.S.; ZARETSKIY, V.I.; ZAIKIN, V.G.

Mass spectrometric study of natural coumarins, Izv. AN SSSR,
Ser. khim. no.12:2215-2218 D '63. (MIRA 17:1)

1. Institut khimii prirodnikh soedineniy AN SSSR.

VUL'FSON, N.S.

Natural dyeing substances. Usp. khim. 32 no.6:653-670 Je '63.
(MIR: 16:8)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(Coloring matter)

VUL'FSON, N.S.; PODREZOVA, T.N.

Studies of Dieckmann reaction. Part 11: 4-Carbethoxy-3-chromanone.
Zhur.ob.khim. 33 no.12:3888-3893 D '63. (MIRA 17:3)

1. Institut khimii prirodnikh soyedineniy AN SSSR i Nauchno-issle-
dovatel'skiy institut organicheskikh poluproduktov i krasiteley
AN SSSR.

KOCHETKOV, N.K.; VUL'FSON, N.S.; CHIZHOV, O.S.; ZOLOTAREV, B.M.

Mass spectrometric study of carbohydrates. Methyl ethers and acetates of glucosides. Dokl. AN SSSR 151 no.2:336-339 J1 '63. (MIRA 16:7)

1. Institut khimii prirodnikh soedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).
(Glycosides) (Mass spectrometry)

VULFSON, N.S.; ZARETSKIY, V.I.; PUCHKOV, V.A.; ZAIKIN, V.G.; SHKROB, A.M.;
ANTONOV, V.A.; SHEMYAKIN, M.M., akademik

Mutual transformations of cyclols and cyclodepsipeptides studied
by the method of fragmentary mass spectrometry. Dokl. AN SSSR
153 no.2:336-339 N '63. (MIRA 16:12)

1. Institut khimii prirodnikh soyedineniy AN SSSR.

TOVAROVA, I. I.; KORNITSKAYA, Ye. Ya.; PUCHKOV, V. A.; VUL'FSON, N. S.; KHOKHLOV, A. S.

"A study of streptomycin biosynthesis."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

Inst for Chemistry of Natural Compounds, AS USSR, Moscow.

VUL'FSON, N.S.; TORGOV, I.V.; ZARETSKIY, V.I.; LEONOV, V.N.; ANANCHENKO, S.N.;
ZAIKIN, V.G.

Mass spectrometric determination of the configuration of epimeric
tert. alcohols in the D-homosteroid series. Izv.AN SSSR.
Ser.khim. no.1:184-186 Ja '64. (MIRA 17:4)

1. Institut khimii prirodnikh soedineniy AN SSSR.

ZARETSKIY, V.I.; VOL'PSON, N.S.

Synthesis of diethyl ester of α,β -dicarboethoxyadipic acid.
Izv. AN SSSR. Ser. khim. no. 5:925-926 By 1964. (MIRA 17:6)

1. Institut khimii prirodnikh soyedineniy AN SSSR.

ZARETSKIY, V.I.; VUL'FSON, N.S.

Methylation of 3-methyl-2,6-dicarbetoxyyclohexane. Zhur.ob.khim. 34
no.1:276-277 Ja '64. (MIRA 17:3)

1. Institut khimii prirodnikh soyedineniy AN SSSR.

VUL'FSON, N.S.; ZARETSKIY, V.I.

Dieckmann reaction. Part 12: Cyclization of diethyl esters of β -carbethoxy- and $\beta\beta$ -dicarbethoxyadipic acid. Zhur. ob. khim. 34 no. 3:828-832 Mar '64. (MIRA 17:6)

1. Institut khimii prirodnikh soyedineniy AN SSSR.

VUL'FSON, N.S.; ZHURINA, F.G.; SENYAVINA, L.B.

Reformatskii reaction with bromomalonie ester. Part 3:
Further study of the reaction of bromomalonie ester with
benzaldehyde. Zhur. ob. khim. 34 no.7:2344-2347 J1 '64
(MIRA 17:8)

1. Institut khimii prirodnykh soyedineniy AN SSSR i Nauchno-
issledovatel'skiy institut organicheskikh poluproduktov i
krasitel'ov.

VUL'FSON, N.S.; KOLCHIN, V. Ye.

Derivatives of acylacetic esters of the heterocyclic series.
Part 5: Synthesis of isonicotinoyl ester, arylides, and
azomethine dyes produced from them. Zhur. ob. khim. 24 no.7:
2387-2390 Ji '64 (MIRA 17:8)

1. Institut khimii prirodnykh soyedineniy AN SSSR i Nauchno-
issledovatel'skiy institut organicheskikh poluproduktov i
krasiteley.

VUL'FSON, N.S.; SAVENKOVA, Ye.V.; SENYAVINA, L.B.

Claisen-Schmidt reaction with heterocyclic analogs of
o-hydroxyacetophenone. Part 1: Condensation of dehydracetic
acid with benzaldehyde. Zhur. ob. khim. 34 no.8:2743-2747
Ag '64. (MIRA 17:9)

1. Institut khimii prirodnikh soyedineniy AN SSSR i Nauchno-
issledovatel'skiy institut organicheskikh poluproduktov i
krasiteley.

ACCESSION NR: AP5011025

UR/0779/64/034/CLL/3655/3659

AUTHOR: Zaretakiy, V. I.; Vul'faon, N. S.; Chatterikova, L. S.; Zaikin, V. G. ¹ ₂₃

TITLE: Mass spectroscopic investigation of heterocyclic compounds. Structure of peumorisin--a new natural hydroxycoumarin, isolated from Peucedanum Morisonii Bess

SOURCE: Zhurnal obshchey khimii, v. 34, no. 11, 1964, 3655-3659

TOPIC TAGS: heterocyclic base compound, mass spectroscopy, botany, pharmacology, pharmacology

Abstract: A new hydroxycoumarin -- peumorisin -- has been isolated from the roots of Morison's brimstone-wort (Peucedanum Morisonii Bess., family Umbelliferae). A mass spectrometric fragment analysis established that peumorisin is 7-hydroxy-8-(3'-methylene-7'-methyloctene-5'-yl-1')-coumarin. The infrared and ultraviolet spectra of the compounds are also cited and compared with those of derivatives and analogs. Orig. art. has 7 formulas and 4 graphs.

ASSOCIATION: none

SUBMITTED: 29Jul63

ENCL: 00

SUB CODE: LS, OP

NO REF SOV: 002

OTHER: 001

JPRS

Card 1/1

STEPANOV, V.M.; VUL'FSON, N.S.; PUCHKOV, V.A.; ZYKII, A.M.

Mass spectrometry of amino acid derivatives. Mass spectra of phenylthiohydantoins of aliphatic amino acids, phenylalanine, tyrosine, and proline. Zhur. ob. khim. 34 no.11:3771-3779 N '64 (MIRA 18:1)

1. Institut khimii prirodnikh soedineniy AN SSSR.

VOL'FSON, N.S.; ZARETSKIY, V.I.; ZAIKIN, V.G.

Mass spectrometry of natural furanocoumarins. Dokl. AN SSSR
155 no. 5:1104-1107 Ap '64. (MIRA 17:5)

1. Institut khimii prirodnnykh soyedineniy AN SSSR. Predstavleno
akademikom M.M.Shenyakinym.

ZARETSKIY, V.I.; VUL'FSON, N.S.; SADOVSKAYA, V.I.; ANANCHENKO, S.N.; TORGOV, I.V.

Mass spectrometry of D-homoequilenin, D-homoeosterone, and their stereoisomers. Dokl. AN SSSR 158 no.2:385-388 S '64. (MIRA 17:10)

1. Institut khimii prirodnykh soyedineniy AN SSSR. Predstavleno akademikom M.M.Shemyakinym.

PREOBRAZHENSKAYA, M.N.; ORLOVA, L.M.; SAVEL'YEVA, I. I.; KISIN, A.V.;
ZARETSKIY, V.I.; VUL'FSON, N.S.; SUVOROV, N. I.

Synthesis and study of racemic indolemycin and isoindolemycin
acids. Dokl. AN SSSR 166 no.3:611-614 Ja '66.

(MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut im. S.Ordzhonikidze i Institut khimii prirodnikh soyedineniy
AN SSSR. Submitted May 4, 1965.

BOCHKAREV, V.N.; PUCHKOV, V.A.; VUL'FSON, N.S.; SHEMYAKIN, M.N.; OVCHINNIKOV,
Yu.A.; KIRYUSHKIN, A.A.; IVANOV, V.T.; VINOGRADOVA, Ye.I.; ALDANOVA, N.A.

Depsipeptides. Part 51: Mass spectrometric study of cyclotetradepsipep-
tides of regular structure. Khim.prirod.soed. 1:52-58 '65.
(MIRA 18:6)

1. Institut khimii prirodnikh soedineniy AN SSSR.

#1 59633-65

ACCESSION NR: P5011025

UR/0019/64/034/011/3655/3659

AUTHOR: Zaritskiy, V. I.; Vul'fson, N. S.; Chetverikova, L. S.; Zaikin, V. G. ¹⁵

TITLE: Mass spectroscopic investigation of heterocyclic compounds. Structure of peumorisin--a new natural hydroxycoumarin, isolated from Peucedanum Horisonii Bess. ^B

SOURCE: Zhurnal obshchey khimii, v. 34, no. 11, 1964, 3655-3659

TOPIC TAGS: heterocyclic base compound, mass spectroscopy, botany, pharmacognosy, pharmacology

Abstract: A new hydroxycoumarin -- peumorisin -- has been isolated from the roots of Morison's brimstone-wort (Peucedanum Horisonii Bess., family Umbelliferae). A mass spectrometric fragment analysis established that peumorisin is 7-hydroxy-8-(3'-methylene-7'-methyloctene-6'-yl-1')-coumarin. The infrared and ultraviolet spectra of the compounds are also cited and compared with those of derivatives and analogs. Orig. art. has 7 formulas and 4 graphs.

ASSOCIATION: none

SUBMITTED: 29Jul65

EXCL: 00

SUB CODE: LS, OP

NO REF SOV: 002

OTHER: 001

JPRS

Card 1/1 *slp*

KOCHETKOV, N.K.; VUL'FSON, N.S.; CHIZHOV, O.S.; ZOLOTAREV, B.M.

Mass spectrometric study of carbohydrates. Report No.3: Mechanism
of decomposition of 2,3,4,6-tetramethyl- α -methyl-D-glycoside. Izv.
AN SSSR. Ser. khim. no.5:776-785 '65. (MIRA 18:5)

1. Institut khimii prirodn'kh soedineniy AN SSSR.

VUL'FSON, P.L.

Nitrogenous extractives in fish muscles. Biokhimiia 26 no.2:300-304 Mr-Apr '61. (MIRA 14:5)

1. Chair of Animal Biochemistry, State University, Moscow.
(NITROGEN METABOLISM) (FISHES—PHYSIOLOGY)

VULFSON, P.L., SEVERIN, S. ⁴E., MESHKOVA, N. P., SHESTAKOV, S. V., (USSR)

"Effect of Carnosine and Anserine Dipeptides on the
Metabolism of Skeletal Muscle."

Report presented at the 5th Int'l. Biochemistry Congress,
Moscow, 10-16 Aug 1961.

VUL'FSON, V.I., kand.khimich.nauk

"Water treatment and water cycles of steam-turbine electric power plants" by M.S.Shkrob and F.G.Prokhorov. Reviewed by V.I.Vul'fson.
Elek. sta. 33 no.10:92-93 0 '62. (MIRA 16:1)

(Bibliography--Electric power plants--Water supply)

(Bibliography--Steam turbines)

(Shkrob, M. S.) (Prokhorov, F. G.)

VUL'FSON, P. L. (Moskva)

Comparative biochemical analysis of amino acids and dipeptides
in muscular tissue. Usp. biol. khim. 4:81-92 '62.
(MIRA 15:7)

(AMINO ACIDS) (DIPEPTIDES) (MUSCLE)

VUL'FSON, P.L.

Carbohydrate-phosphorus and oxidation metabolism of the skeletal muscles in ontogenesis. Biokhimiia 20 no.2:179-187 Mr-Apr '55.
(MLRA 8:8)

1. Kafedra biokhimiia zhivotnykh Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

(MUSCLES, metabolism,
carbohydrates, phosphorus & oxidation, embryonic
& postnatal rabbits)

(CARBOHYDRATES, metabolism,
musc., embryonic & postnatal rabbit musc.)

(PHOSPHORUS, metabolism,
musc., embryonic & postnatal rabbit musc.)

VUL'YSON, P.L.

~~Extractive nitrogenous substances of muscles in ontogeny~~ [with summary in English]. Biokhimiia 23 no.2:300-306 Mr-Apr '58 (MIRA 11:6)

1. Kafedra biokhimii zhivotnykh Biologo-pochvennogo fakul'teta Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

(PEPTIDES, determination

in musc. of embryo ducks & ducklings at various stages of develop. (Rus))

(AMINO ACIDS, determination

in musc. of embryo ducks & ducklings at various stages of develop. (Rus))

(MUSCLES, metabolism

dipeptide & amino acid content in embryo ducks & ducklings at various stages of develop. (Rus))

SEVERIN, S.Ye.; VUL'FSON, P.L.

Nitrogenous extractives in fish muscles, *Biochimia* 24 no.6:
1002-1009 N-D '59. (MIRA 13:5)

1. Chair of Animal Biochemistry, the State University, Moscow.
(NITROGEN)
(FISH)

SEVERIN, S.Ye.; VUL'FSON, P.L.; TRANDAFILOVA, I.L.

Carnosine content in different parts of frog muscles. Dokl.AN
SSSR 145 no.1:215-217 J1 '62. (MIRA 15:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
2. Chlen-korrespondent AN SSSR (for Severin).
(CARNOSINE) (MUSCLE)

SEVERIN, S.Ye.; BOCHARNIKOVA, I.M.; VUL'FSON, P.L.; GRIGOROVICH, Yu.A.;
SOLOV'YEVA, G.A.

Biological role of carnosine. Biokhimiia 28 no.3:510-516 My-Je '63.
(MIRA 17:2)

1. Chair of Animal Biochemistry, State University, Moscow.

SEVERIN, S.Ye.; VUL'FSON, P.L.; SKOLYSHEVA, N.K.

Effect of imidazole and acetylimidazole on the properties of
phosphorylase b. Dokl. AN SSSR 166 no.1:232-241 Ja '66.
(MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet. 2. Chlen-korrespondent
AN SSSR (for Severin). Submitted July 23, 1965.

VUL'FSON, P.L.; SKOLYSHEVA, L.K.

Activity of muscular phosphorylase "p" under various conditions
of pericrystallization and storage. Vop. med. khim. 11 no.1:99-101
Ja-F '65. (MIRA 18:10)

1. Kafedra biokhimii zhivotnykh Moskovskogo gosudarstvennogo
universiteta.

VUL'FSON, P. L.

"Carbohydrate-Phosphorus and Oxidizing Metabolism of the Skeletal Musculature of Rabbits in the Process of Ontogenesis." Cand Biol Sci, Moscow Order of Lenin State U imeni M. V. Lomonosov, 19 Feb 54. Dissertation (Vechernyaya Moskva Moscow 8 Feb 54)

SO: SUM 186 19 Aug 1954

VUL'FSON, P.L.

Extractable nitrogenous substances of muscle tissues in the process of ontogenesis. P. L. Vul'fson and S. B. Severin (Moscow State Univ.). *Dokl. Akad. Nauk. SSSR*, 27, 293-294 (1965) (in Russian). Two groups of gestating sows were used. The controls were fed a standard diet. The exptl. group was given an ad lib. 30% of balanced proteins and five times the vitamin A ration. At intervals embryos were removed from their mothers and qual. and quant. detns. made of the extractives of the skeletal muscles. In the early stages of the embryonic development the glutamic acid is high. It soon begins to diminish and in young pigs (one month old) it constitutes only a minor part of the N extractives of the muscles. The aspartic acid content is lower than that of glutamic acid, and it, too, diminishes as the embryo develops. The glycine content of muscle increases in the early stages up to one-month-old pigs. The content of alanine is high and remains so throughout the period of the embryo development. β -Alanine is high at first, but disappears in pigs one month old. At this stage the appearance of carnosine becomes manifest. By means of the diazo reagent it was shown that some carnosine is present in embryos 65 days old; in embryos 80 days old its content increases and in the skeletal muscles of piglets one month old carnosine is present to the extent of 500 mg. % on the basis of dry wt. No histidine was found. The general trend of analytical results was the same in the controls as in the richly fed animals, but the level of the data values was higher in the latter. D. S. I.

①

VUL'FSON, R. KH.

SHAKHBAZIAN, G. Kh., professor (Kiyev); KULIK, G. I. (Kiyev); VUL'FSON, R. Kh.
(Kiyev)

Preventing caries in adolescents by increased vitamin intake.

Probl. stom. 3:19-22 '56

(MLRA 10:5)

(TEETH--DISEASES) (VITAMIN THERAPY)

VERESHCHAGIN, A.N.; VUL'FSON, S.G.

Calculation of the induced effect of two dipoles. Teoret. i
eksper. khim. 1 no.3:305-310 My-Je '65. (MIRA 18:9)

1. Kazanskiy gosudarstvennyy universitet imeni V.I. Ul'yanova-
Lenina.

ARBUZOV, B.A.; VERESHCHAGIN, A.N.; VIL'FON, S.G.

Dipole moments and the structure of methacrylonitrile adducts
with some cyclic dienes. Izv. AN SSSR Ser. khim. no.1:155-158
'65. (MIRA 18:2)

1. Kazanskiy gosudarstvennyy universitet im. V.I. Ulyanova-Lenina.

VUL'FSON, S.I.
FEL'DMAN, A.I.; VUL'FSON, S.I.

[Diseases of the ear and the upper respiratory organs in children]
Bolezni uha i verkhnikh dykhatel'nykh putei v detskom vozraste.
5-oe izd., perer. i dop. Moskva, Medgiz, 1957. 385 p. (MIRA 10:11)
(EAR--DISEASES) (RESPIRATORY ORGANS--DISEASES)

VUL'FSON, S. I.

17(8)

SOV/177-58-9-46/51

AUTHOR: Wul'fson, S.I., Colonel of the Medical Corps
TITLE: A Connecting Piece for the Laryngeal Syringe
PERIODICAL: Voenno-meditsinskiy zhurnal, 1958, Nr 9, p 93 (USSR)
ABSTRACT: The author suggests a modified connecting piece for the laryngeal syringe (Figures 1 and 2). It has a lateral slot which permits one to put the fixing ring on at the bottom of the endpiece, through the slot, without touching it throughout the whole length. It corresponds much more with the rules of antisepsis, than the one formerly used. There are 2 diagrams.

Card 1/1

VUL'FSON, S.I., doktor med.nauk (Moskva)

Peculiarities of inflammation of the middle ear in infants and young
children. Med. sestra 20 no.3:20-23 Mj. '61. (MIRA 14:5)
(EAR—DISEASES)

FEL'DMAN, Aleksandr Isidorovich [deceased]; VUI'FSON, Solomon
Isaakovich; KALINA, V.O., red.

[Diseases of the ear and upper respiratory tract in
children] Bolezni ukha i verkhnikh dykhatel'nykh putei v
detskoy vozraste. 6-3 izd. perer. i dop. Moskva, Medi-
tsina, 1964. 399 p. (MIRA 17:5)

VUL'FSON, S.I., polkovnik med.slushby

Needle coupling for a laryngeal syringe. Voen.-med.zhur. no.9:93
S '58. (MIRA 12:12)

(SYRINGES)

ALEKSANDROV, I.M., doktor med.nauk; VUL'FSON, S.I., doktor med.nauk;
PNEOBRAZHEVSKIY, N.A., kand.med.nauk

Professor Vladimir Gertsevich Ginzburg: on his 60th birthday.
Vest.otorin. 21 no.3:104 My-Je '59. (MIRA 12:9)

(BIOGRAPHIES

Ginzburg, Vladimir G. (Rus))

S/179/60/000/01/022/034
E081/E535

AUTHOR: Vul'fson, S.Z. (Moscow)

TITLE: Thermal Stresses in Concrete Blocks, Allowing for Creep
of the Concrete

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh
nauk, Mekhanika i mashinostroyeniye, 1960, Nr 1,
pp 162-165 (USSR)

ABSTRACT: According to the hereditary theory the law of deformation
for uni-axial stress systems is written in the form (1.1),
of which the solution is (1.2), where $K(t - \tau)$ is the
after effect kernel and $R(t - \tau)$ is the relaxation kernel;
the form of $K(x)$ is found experimentally. The after-
effect kernel suggested in Ref 3 is (1.3), with Γ the
gamma function, and the corresponding equation for the
relaxation kernel is (1.4). For aged concrete, the best
approximation to experimental results is given by the
after-effect kernel (1.5) (Refs 2,4). The resolvent of
Eq (1) with kernel (1.5) is written in series form (1.6).
According to Volterra's principle for the solution of

Card 1/3 creep problems (hereditary elasticity), the elastic

S/179/60/000/01/022/034
E081/E535

Thermal Stresses in Concrete Blocks, Allowing for Creep of the Concrete

constants must be represented as integral operators. For instance, in one dimensional problems, the elasticity modulus is represented by (1.10). If the concrete is subjected to a constant or variable temperature, the distribution of which is given by (2.1), the thermo-elastic stresses are then given by (2.2). On the basis of (1.10) and (1.13) (equality of Poisson's ratio in the elastic and plastic stages of deformation), the stresses according to Volterras principle, allowing for creep, can be written as (2.3), and taking (1.5) for the kernel of the after effect function, $T^x_k(t)$ is then found as Eq (2.5). Particular cases are considered as follows: a) Steady flow of heat. Using (2.3) and (2.5), the stresses are obtained as (2.6). b) Harmonic variation of temperature in the surrounding medium. In this case, the stresses are given by (2.8) and $T^x(t)$ from (2.5) by (2.9). For sufficiently large time intervals (2.9) becomes (2.11) and the stresses are given by (2.14).

Card 2/3 Thus, after a sufficient time has elapsed the stresses

S/179/60/000/01/022/034
EO81/E535

Thermal Stresses in Concrete Blocks, Allowing for Creep of the Concrete

vary harmonically. Comparing (2.8) and (2.14) it is found that under the influence of the creep the vibration amplitude decreases by a factor Ψ (Eq 2.13), and the initial phase increases by γ_1 (Equation between (2.14) and (2.15)). c) Symmetrically cooled concrete plate. The stresses are given by Eq (2.15); taking one term for simplicity, $T^*(t)$ is obtained as (2.16). The function $T^*(t)$ passes through zero at $t = t_0$ which is a root of the equation (2.17), and passes through a minimum at $t = t_1$, where t_1 is a root of (2.18). Thus, $T^*(t)_{\min}$ is given by (2.19). This behaviour differs from the elastic case, and appreciable corrections are required to the elastic solution to allow for creep. There are 4 Soviet references.

SUBMITTED: July 9, 1959

Card 3/3

VUL'FSON, V., kand. khim. nauk, dotsent

Oil extraction from the condensate and the technical characteristics of filter materials and marine feedwater heaters. Mor. flot 23 no.9:29-31 S '63. (MIRA 16:11)

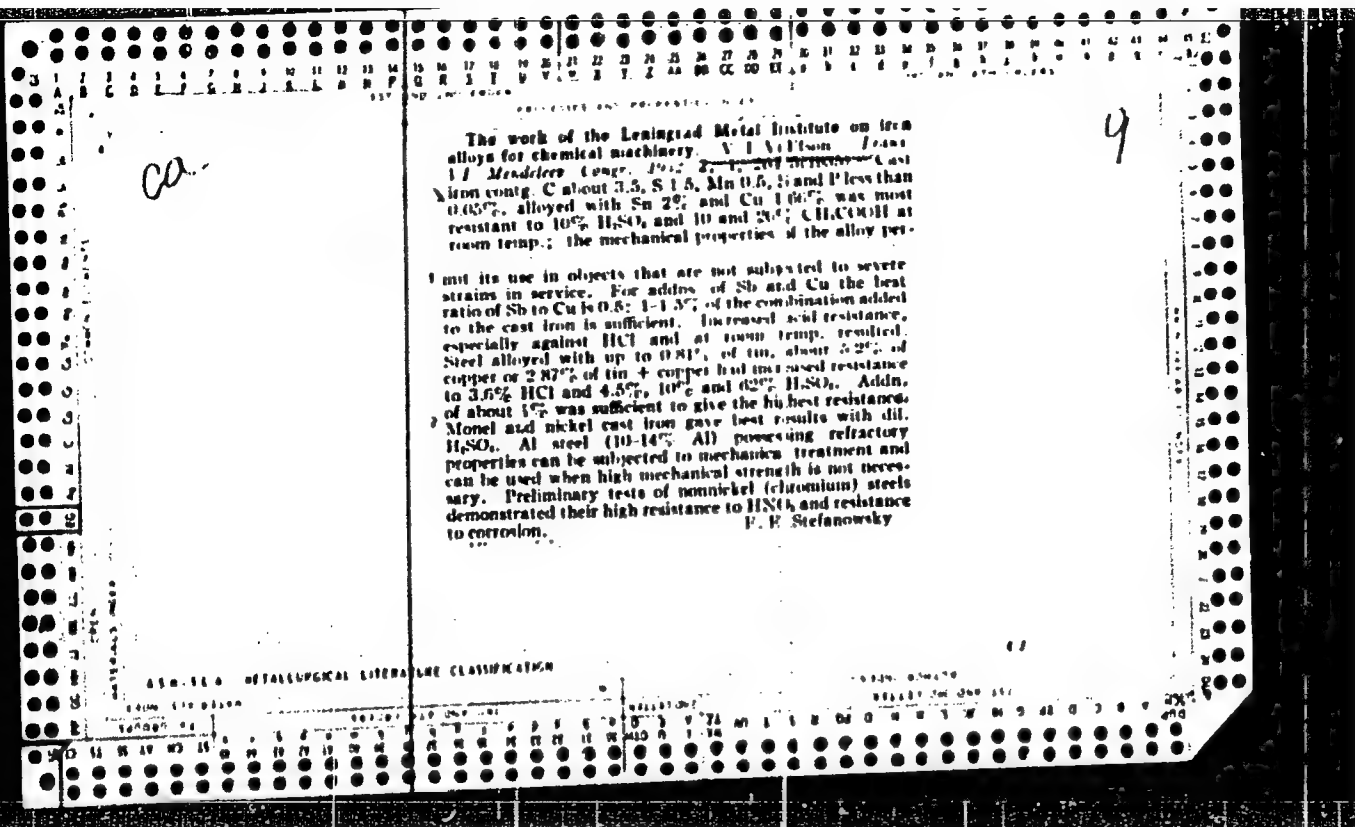
1. Kafedra khimii Leningradskogo vysshogo inzhener'nogo morskogo uchilishcha im. admirala Makarova.

PROCESSING AND PROPERTY INDEX																									
MATERIALS													PROPERTY												
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<p>Corrosion of high-pressure boilers. I. V. I. Vulkan. <i>Sovetskaya Vysokopressurnaya Inst. Metal.</i> 7, 18-19 (1931).</p> <p>The causes for the corrosion of high-pressure boilers were investigated in 2 power stations, the first of which works according to the condensation, the second according to the counter-pressure principle. In the first station, the boilers were found in good condition, because here, according to V., the water was subjected to a purification process ($Al_2(SO_4)_3$ and filtration). In the second station, the condensation water was not purified; consequently considerable corrosion had taken place. H. Cohen</p>																									
<p>ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																									
<p>140000 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</p>																									

* Calculation of the sodium number. V. I. Vyl' (Sov. Repts. Inst. Metals (Leningrad) No. 15, 17) 82 (in German (1931) (1033)). — A formula is given for the amt. of free NaOH formed through hydrolysis of NaHCO_3 and Na_2CO_3 introduced into boiler water: $N = (0.22 - 0.41A)K$, where N is Na no., K is degree of hydrolysis and A the amt. of NaHCO_3 or Na_2CO_3 in mg. per l. in the boiler water. S. I. Malotskiy

A 10-114 METALLURGICAL LITERATURE CLASSIFICATION

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Durability of phosphatic coatings in steam boilers. V. I. Vulfson and L. I. Mikhailov. <i>Repts. Central Inst. Metall.</i> (Leningrad) No. 17, 217-21 (in English 221) (1934).—Samples of Fe, analyzing C 0.14, Si trace, P 0.029, S trace, Cu 0.16, Cr 0.05, Ni trace and Mn 0.5%, were phosphatized as follows: samples were first degraded by immersion for 10 min. in a 15% NaOH soln. at 60-70°. then washed with H ₂ O, immersed in 10% HCl soln. at 65-75° and finally phosphatized by immersion in 3% phosphatic salt soln. (PO ₄ — 55-60, Mn++ 13-16, Fe++ 2-3 and SO ₄ — 0.2-0.3%) at 90-8°. In the last immer- sion, a violent liberation of H ₂ took place during the 1st 30-35 min. Samples were kept in soln. for another 15 min. Corrosion tests of the phosphatized samples were made in an autoclave in water from the Neva river and Black sea, under pressure up to 12 atm. The phosphatic coating was resistant in Neva water up to 12 atm., and in sea water up to 6 atm. The coatings were also studied micrographically. S. L. Madorosky																									
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GA

Formation of scale in the pipes of a contact condenser.
V. I. Yul'yan. *Khozhimaya Prom.* 1939, No. 4, 20-1;
Akim, Referat. Zhur. 1940, No. 3, 126. -- The presence of
NH₃ in the circulating water caused deposition of scale up
to 12-14 mm. thick. The reactions forming the deposit
in the presence of NH₃ are given. The scale can be re-
moved by rubbing it with 3-4% HCl or H₂SO₄.
W. R. Henn

ASS.SLA DETAIL LITERATURE CLASSIFICATION

ENGIN. STUDIES

MADE IN U.S.A.

MADE IN U.S.A.

CH

The theory of phosphatization of metals and its application. V. I. Yul'con. Korrrosiya i Zorboz No! 8, 7-23 (1939).—On boiling phosphating solutions, free H₃PO₄, is formed according to $M(II)PO_3 + 2MIIPO_4 \rightarrow M_2(PO_4)_6$; or $6H_3PO_4$, in which M is Mn or Fe. M₂(PO₄)₃ ppt. on the surface of the metal as a protective film. The process takes place at room temp. at pH five thru six. Increase of temp. increases the stability sharply; 2.30–4.40. Increase of time increases it from one case to 1.72 in another. With greater contents of Mn in the phosphate layer, less Fe is formed and the film produced is far more stable. Surfaces mechanically treated and defatted before phosphatization become coated with a film that is finely crystalline and 0.001–0.004 mm. thick. The process is completed in 20 min. Surfaces etched in acids and washed with H₂O before phosphatization have a coarsely crystalline film 0.009–0.011 mm. thick. Metal contg. C 0.92, Si 0.23, Mn 0.33 and S 0.03% was made corrosion-resistant by phosphatization, and its resistance was increased by application of oil to the phosphorylated surface. Iron contg. C 0.14, P 0.029, Cu 0.16, Mr. 0.51, Cr 0.05% and traces of Ni, Al and S after phosphatization was resistant to cementation.

C. S. Shapiro

C. S. Shapiro

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

VUL'FSON, V., dotsent; PUTOV, V., starshiy inzhener; SHUSTER, D., mladshiy
nauchnyy sotrudnik

Ship laboratory for the analysis of petroleum products. Mor. flot 22
no.7:23-25 JI '62. (MIRA 15:7)

1. Leningradskoye vyssheye inzhenernoye morskoye uchilishche im.
admirala Makarova.

(Lubrication and lubricants—Testing)
(Marine diesel engines—Lubrication)

VUL'FSON, V., kand.khim.nauk

D.M.Mendeleev and the merchant marine. Mor.flot 20 no.10:42 0 '60.
(MIRA 13:10)

1. Zaveduyushchiy kafedroy khimii Leningradskogo vysshego
inzhenernogo morskogo uchilishcha.
(Mendeleev, Dmitrii Ivanovich, 1834-1907) (Merchant marine)

VUL'FSON, V.

B.T.

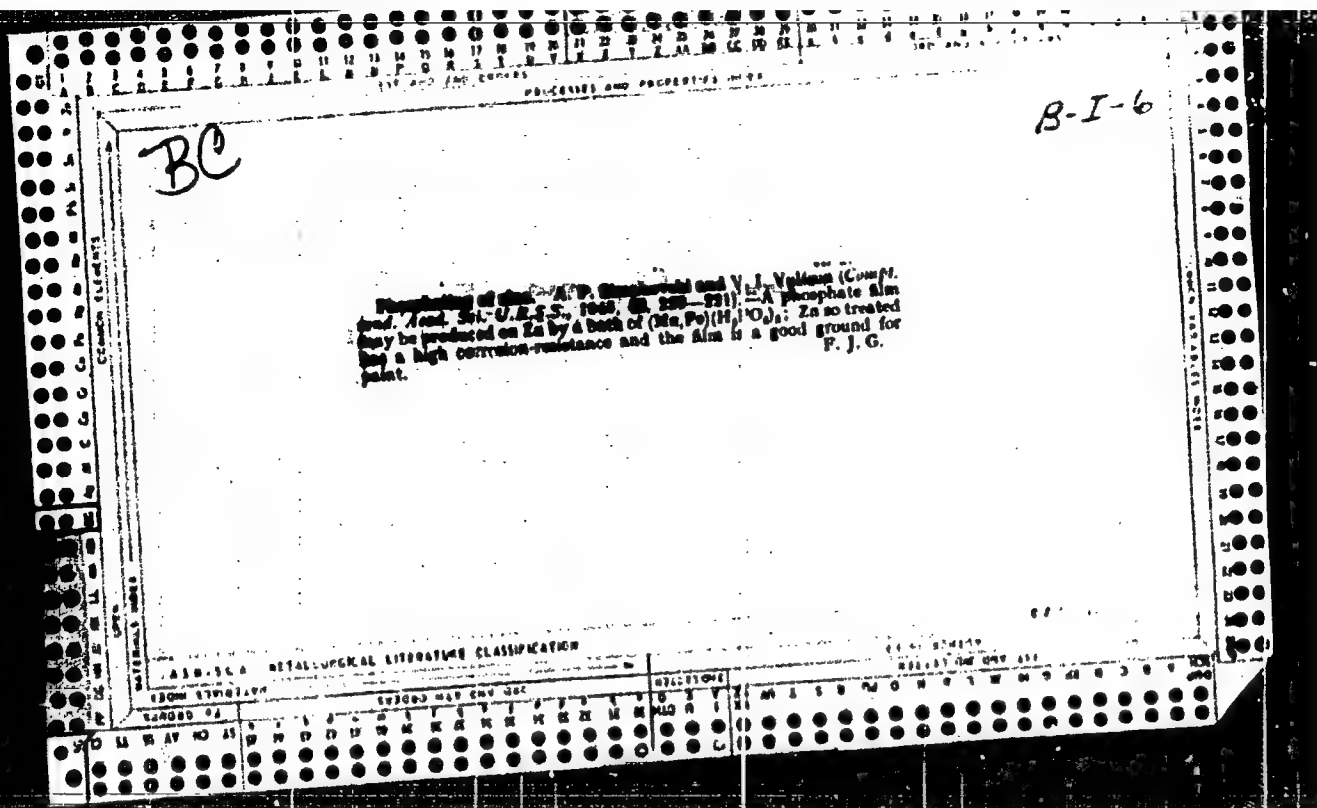
1/19

V. Vul'fson and others, Russian Developments
in Phosphate Coating (Report on All-Soviet
Convention on Phosphate Coating). KORROZIYA
I BOR'BA S NEI, vol. 5, 1939, pp. 6-125,
2200 words.

CA

Protective phosphate coatings on iron. V. I. Vul'fson. *Trudy Konferentsii Korrozii Metal.* 2, 30-74 (1963); cf. C.A. 36, 3781. --Various kinds of phosphate treatment are reviewed. Bonderizing affords less protection than treatment with 3% $\text{Na}_2\text{H}_2\text{P}_2\text{O}_7$. Spring wire becomes too brittle after phosphatizing. Sandblasting is a better pretreatment than is pickling. The bath temp. must be kept within a narrow range; e.g., treatment at 60° gives completely better results than that at 50° or 110°. H. C. P. A.

ASS-15 A METALLURGICAL LITERATURE CLASSIFICATION



VUL'FSON, V.I.

Founder of the new science of marine chemistry V.I. Vernadskii.
Okeanologiya 4 no.2:193-204 '64. (MIRA 17:5)

1. Leningradskoye vyssheye inzhenernoye morskoye uchilishche
imeni admirala S.O. Makarova.

VUL' FSON V.I.

VUL' FSON, V.I., kandidat khimicheskikh nauk.

Metal corrosion tests in sea water. frudy kon. po bor'. s
korr.met. no.1:44-57 '51. (MLRA 10:8)

1.Vysshaye morskoyearkticheskoye uchilishche, Leningrad.
(Metals--Corrosion)
(Sea water)

VUL'FSON, V.I.; ALEKSEYEVA, M.D.

Using the permanganate method for determination of oxygen diluted
in water. Gidrokhim, mat. 26:226-229 '57. (MIRA 10:8)

1. Leningradskoye vyssheye inzhenernoye morskoye uchilishche im.
adm. Makarova.

(Oxygen) (Water--Analysis) (Permanganates)

Vul'fson, V.I.

26-58-6-27/56.

AUTHOR: Vul'fson, V.I., Candidate of Chemical Sciences

TITLE: Forms of Water Migration in Nature (Formy migratsii vody v prirode)

PERIODICAL: Priroda, 1958, Nr 6, p 97-100 (USSR)

ABSTRACT: The hydrosphere has geochemical laws of its own, mainly determined by the properties of water, which makes up the major part of its mass (over 96%). Water migration in nature consists of a large number of cycles which can be combined in a main system, consisting of: mechanical, physical, physico-chemical, chemical, biotic and technical cycles, as shown in the table.
There is 1 table and 5 Soviet references.

ASSOCIATION: Leningradskoye vyssheye inzhenernoye morskoye uchilishche imeni admirala S.O. Makarova (Leningrad Higher Naval Engineer School imeni Admiral S.O. Makarov)

Card 1/1 1. Water-Migration

VUL'FSON, V.I.

"Treasures hidden in the Atlantic Ocean." Okeanologia
4 no.2:366 '64. (MIRA 17:5)

VUL'FSON, V.I.

Feedwater treatment and water conditions in the steam power
systems of merchant ships. Vodopod., vod. rezh. i khimkont.
na parosil. ust. no.1:26-32 '64. (MIRA 18:2)

1. Leningradskoye vyssheye inzhenernoye morekhodnoye uchilishche
imeni admirala S.O. Makarova.

AKHUMOV, Ye.I.; VUL'FSON, V.I.; GRIGORIADI, P.K.; MAKSIMYUK, Ye.A.;
RAZUMOVSKIY, V.V.; UGOL'NIKOVA, G.A.

Chemistry and radio engineering. Izv. vys. ucheb. zav.; radiotekh.
4 no.4:502-503 J1-Ag '61. (MIRA 14:11)

1. Komissiya seksii prepodavaniya Leningradskogo oblastnogo prav-
leniya Vsesoyuznogo khimicheskogo obshchestva imeni D.I.Mendeleyeva.
(Radio) (Chemistry)

VUL'FSON, V.I., kand.khimicheskikh nauk, dotsent

Water migration in nature in the form of cycles. Uch. zap. LVIMU
no.13:87-102 '59. (MIRA 13:9)

1. Kafedra obshchey khimii Leningradskogo vysshego inzhenernogo
morskogo uchilishcha im. admirala Makarova.
(Hydrology)

VUL'FSON, Ye.A.

State of immunity to diphtheria in urban children of Tomsk
Province according to the Schick reaction. Trudy Tom NIIVS
12:118-122 '60 (MIRA 16:11)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i sy-
vorotok.

*

L 10415-67 ENT(1) JK

ACC NR: AP6029957

SOURCE CODE: UR/0413/66/000/015/0139/0139

29

AUTHORS: Olifson, L. Ye.; Uvarov, A. A.; Dumova, Yu. M.; Vul'fson, Ye. F.

ORG: none

TITLE: A method for imparting bactericidal properties to filter paper. Class 49, No. 184608

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 139

TOPIC TAGS: bactericide, zinc compound, potassium compound

ABSTRACT: This Author Certificate presents a method for imparting bactericidal properties to filter paper by soaking the latter in a solution of chemicals. First, the paper is saturated with zinc sulfate, then it is dried, and finally it is saturated with potassium butylxanthogenate and dried again. The solutions of zinc sulfate and potassium butylxanthogenate may be prepared in a 1% concentration.

SUB CODE: 06/ SUBM DATE: 19May65

Card 1/1

UDG: 676.391

VUL'FSON, Ye.K.

Separating properties of an electric field produced by electrodes
consisting of a system of converging pieces of wire. Uch.zap.Mosk.
gor.ped.inst. 85:69-73 '58. (MIRA 14:10)
(Electrostatic separators)

GAL'BINSHTEYN, Z.N., inzh.; IL'INA, N.F., inzh.; NAUMOVA, M.V., inzh.;
 FILINA, T.A., inzh.; KHODOS, M.M., inzh.; GOL'DMAN, Zh.I.;
 PATALAKH, V.G.; SNESAREV, M.M.; VUL'FSON, Ye.S., inzh.;
 KONSTANTINOVA, L.A., inzh.; SKOBELEVA, A.M., inzh.; TEL'NOVA,
 Ye.V., inzh.; KHEYFETS, L.S., inzh.; SEL'NEVICH, A.S.;
 NEDOVESENKO, M.V.; VOLKOVA, A.Ye.; NOVITSKIY, L.M., nauchn.red.;
 NEFEDOV, S.F., red.; ROSTOTSKIY, V.K., red.; GORDEYEV, P.A., red.
 izd-va; YUDINA, L.A., red.izd-va; VDOVENKO, Z.I., red.izd-va;
 GOL'BERG, T.M., tekhn.red.; KOROBEKOVA, N.I., tekhn. red.

[Album of new construction equipment recommended for adoption]
 Al'bom novoi stroitel'noi tekhniki, rekomenduemoi k vnedreniiu.
 Moskva, Gosstroizdat, 1963. No.1. [Industrial construction] Pro-
 myshlennoe stroitel'stv. 116 p. No.3. [Construction for transporta-
 tion purposes] Transportnoe stroitel'stvo. 91 p. No.4. [Rural
 construction] Sel'skoe stroitel'stvo. 71 p. No.5. [Building
 materials, products, and elements] Stroitel'nye materialy, izde-
 lliia i konstruktsii. 41 p. No.8. [Construction and road machinery
 and equipment] Stroitel'nye i dorozhnye mashiny i oborudovanie.
 104 p. (MIRA 16:8)

(Building materials) (Road machinery)
 (Construction equipment)

SLEDE, Igons; VECVAGARS, Ziedonis; BINDE, Gunars; VULFSONE, E.,
red.

[Bridges] Tilti. Riga, Latvijas Valsts izd-ba, 1964.
399 p. [In Latvian] (MIRA 17:6)

VIKMANIS, Edgars; VULFSONE, E., red.; PASTARE, D., tekhn. red.

[Practice in highway construction in the Latvian S.S.R.]
Latvijas PSR automobiļu celu būvniecības pieredze. Rīga,
Latvijas Valsts izdevniecība, 1960. 137 p. (MIRA 15:2)
(Latvia--Road construction)

LUSIS, Juris; SIEDE, Egons; CAILIS, K., kand. tekhn. nauk, retsenzent;
SILINS, L., преподаvatel', retsenzent; VULFSONE, E., red.;
SPORANE, V., tekhn. red.

[Statics of structures] Buvstatika. Riga, Latvijas Valsts
izdevnieciba, 1961. 346 p. (MIRA 15:2)
(Structures, Theory of) (Statics)

BIRMAN, A.M.; JURJANE, E. [translator]; ZVAIGZNIE, Z. [translator];
VULFSONE, E., red.; ZAGARS, A., tekhn. red.

[Learn to manage; articles on the economics of enterprises] Macies saimniekot; stasti par uznemuma ekonomiku. Tulkots no otra izdevuma, ar autora papildinajumiem. Riga, Latvijas valsts izd-va, 1962. 413 p. Translated from the second edition with the author's supplements.
(MIRA 17:1)

SVARCS, K.; VULFSONE, E., red.; SILINS, V., tekhn. red.

[Chemistry of light; photochemical reactions] Gaismas kimija;
fotokimiskas reakcijas. Riga, Latvijas Valsts izdevnieciba,
1961. 85 p.

(MIRA 15:2)

(Photochemistry)

ANTEINS, Aleksis; VULFSONE, E., red.

[Molding materials, mixtures and their testing]
Formšanas materiāli, maisījumi un to pārbaudes. Rīga,
Latvijas Valsts izdevniecība, 1965. 75 p. [In Latvian]
(MIRA 18:6)

BERENFELDS, Valdis; VULFSONE, E., red.

[Form grinding] Profilslipešana. Rīga, Liepāja, 1965. 91 p.
[In Latvian] (MIRA 18:6)

LIBEEMANIS, Leonids; JANSONS, Vladimirs; VULFONE, E., red.;
SPORANE, V., tekhn. red.

[Plastic sliding bearings] Plastmasas slidgultni. Riga,
Latvijas Valsts izdevnieciba, 1962. 61 p. (MIRA 16:5)
(Plastic bearings)

ALKSNE, Valenina; BERZINS, Rolands; VULFSONE, Ya., red.

[Glass plastics, material of the future] Stikla
plastī nakotnes materials. Rīga, Latvijas Valsts
izd-va, 1964. 73 p. [In Latvian] (MIRA 18:1)

VULGAKOV, E.B., inzh.

Equilifted gear transmission with a contact pole located
in the area of simultaneous contact of two pairs of teeth.
Trudy NIIKHIMMASH no.26:207-225 '58. (MIRA 13:7)
(Gearing, Spur)

VULGAKOV, E.B., inzh.

Base contour of involute gear meshing. Test.mash. 41 no.1:32-38
Ja '61. (Gearing) (MIRA 14:3)

8/122/61/000/001/004/015
A161/A130

AUTHOR: Vulgakov, E. B., Engineer

TITLE: The problem of the basic profile of involute gear teeth

PERIODICAL: Vestnik mashinostroyeniya, no. 1, 1961, 32 - 38

TEXT: The article concerns the Soviet standard basic rack profile [ГОСТ 3058-54 (GOST 3058-54)] presenting the continuation of the first of 1934 [ОСТ/ВКС 6922 (OST/VKS 6922)] having been introduced to make possible a centralized production of gear cutting tools and to make gear transmissions interchangeable. Various modifications had been suggested meanwhile, and new basic profiles are used abroad, e.g., the U.S. AGMA 201.02, 1958 standard, and some of the leading machine plants in the USSR are already using modified nonstandard rack profiles (see Figure, portion of Table 1 comparing the profiles used in the USSR, Belgium, Netherlands, France, Poland, and the U.S.). It is obvious that the involute gear tooth load bearing capacity can be considerably raised and the gear transmission weight reduced. The author advocates a revision of GOST 3058-54 and an experimental investigation to establish the rational application fields for modified gears

Card 1/3

The problem of the basic profile of involute

S/122/61/000/001/004/015
A161/A130

with other than the present standard 20° pressure angle. The effect of the pressure angle (α_o) changed to 25° , 30° and some other values is graphically analyzed to prove the positive effect. Experiments are mentioned (by Engineer B. S. Shul-eyko) in which it has been proven that the load capacity of gears cut with modified rack tool and corrected can be raised by 70 %. The article includes a graphical determination of the permissible fields of application of involute gears cut with modified rack tools, with the use of the "blocking contour method" (Ref. 4: M. B. Groman, "Vestn. mashinostroyeniya", no. 2, 1955). There are 6 figures, 2 table and 6 Soviet-bloc references. ✓

Card 2/3

VULGAKOV, E.B.; GAVRILENKO, V.A., prof., doktor tekhn. nauk, retsenzent;
GROMAN, M.B., inzh., red.; LESHICHENKO, I.I., red. izd-va;
MAKAROVA, L.A., tekhn. red.

[Gears with modified initial rake contour] Zubchatye peredachi
modifitsirovannogo iskhodnogo reechnogo kontura. Moskva, Mash-
giz, 1962. 98 p. (MIRA 16:2)

(Gearing)

GOLUBOVIC, Vasilije, dr inz., docent (Beograd, Karnedzijeve 4);
VULICEVIC, Bogoljub, inz.

Determination of certain impurities in calcium chloride
with the aid of organic reagents. Tehnika Jug 17 no.8:Suppl.:
Hemindustrija 16 no.8:1571-1575 Ag '61.

1. Teholoski fakultet Univerziteta u Beogradu (for Golubovic).
2. Sluzbenik Azotare "Pancevo", Pancevo (for Vulicevic).

ATANACKOVIC, Ana, dr; VUCINIC-ARANDELOVIC, Radmila, dr.; VULICEVIC, Milena,
dr.; KNEZEVIC, Svetozar, dr.; VRHOVAC, Milos, dr.

Mitral defects in infants and pre-school children. Med.glasn. 14 no.4:
212-214 Ap '60.

1. Interna klinika B Medicinskog fakulteta u Beogradu (Upravnik: prof.
dr R.Parovic)
(MITRAL VALVE dis)

VULICEVIC, Radojko, inz.

Railroad electrification and electric industries. Elektro-
privreda 16 no.6/7:270-277 Je-Jl'63.

LAUNDER, G.W., M.A.; VULICEVIC, Radojko, inz. [translator]

System of railroad contact network. Elektroprivreda 15 no.11/12:
509-513 N-D '62.

1. British Insulated Callender's Construction Co Ltd. (for Launder).

VULICHANOVA, St.

Gastric cancer and its cytostatic treatment. Nauch. tr.
vissh. med. inst. Sofia 41 no.2:101-104 '62.

1. Predstavena ot prof. G. Popov.
(STOMACH NEOPLASMS) (ANTINEOPLASTIC AGENTS)

VULIK, L. A.

"Thermodynamics of Gas Flows." GOSENERGOIZDAT. (1950)

VULIKH, A.I. (Novosibirsk); BOGATYREV, V.I. (Novosibirsk)

Ion exchange method of producing hydrobromic and hydroiodic acids. Izv. Sib. otd. AN SSSR no.8:53-54 '62. (MIRA 17:8)

15000
S/019/62/000/009/002/125
A154/A126

AUTHORS: Vulikh, A.I.; Makovetskiy, M.I.; Prikhod'ko, L.D.

TITLE: A method of obtaining lithium oxide

PERIODICAL: Byulleten' izobreteniy, no. 9, 1962, 16

TEXT: Class 121, 16. No. 146730 (737660/23-4 of July 11, 1961). A method of obtaining lithium oxide is by thermal decomposition of caustic lithium monohydrate in corundum furnaces at a temperature of 900 - 1,000°C in a vacuum of 1 mm Hg. It is distinguished by the fact that, to raise the yield of the product and increase its purity, the initial product is first heated for 2 - 3 h at a temperature of 250 - 300°C in a vacuum of 600 mm Hg and is then treated by known means.

Card 1/1

S/019/62/000/007/045/088
A154/A126

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TITLE: A method of producing lithium hydroxide

PERIODICAL: Byulleten' izobreteniy, no. 7, 1962, 42

TEXT: Class 40c, 5. No. 146048 (693751/22-2 of January 16, 1961). A method of producing lithium hydroxide from lithium chloride by electrolysis of an aqueous solution on a solid cathode with a diaphragm and a circulating electrolyte is described. It is distinguished by the fact that the solution is concentrated by evaporation after electrolysis and is then crystallized to separate the lithium hydroxide.

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